

a housing;
a cathode within the housing;
an anode within the housing; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.70 mm^{-2} .

5. (Amended) The battery of claim 4, wherein the battery has an $(S/V)^2$ value of greater than 0.75 mm^{-2} .

6. (Amended) The battery of claim 4, wherein the battery has an $(S/V)^2$ value of greater than 0.8 mm^{-2} .

7. (Amended) A primary alkaline AAAA battery, comprising:
a housing;
a cathode within the housing;
an anode within the housing; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 1.2 mm^{-2} .

8. (Amended) The battery of claim 7, wherein the battery has an $(S/V)^2$ value of greater than 1.4 mm^{-2} .


9. (Amended) The battery of claim 7, wherein the battery has an $(S/V)^2$ value of greater than 1.5 mm^{-2} .

10. (Amended) A primary alkaline C battery, comprising:
a housing;
a cathode within the housing;
an anode within the housing; and
a separator electrically separating the anode and the cathode;

wherein the battery has an $(S/V)^2$ value of greater than 0.110 mm^{-2} .

11. (Amended) The battery of claim 10, wherein the battery has an $(S/V)^2$ value of greater than 0.120 mm^{-2} .

12. (Amended) The battery of claim 10, wherein the battery has an $(S/V)^2$ value of greater than 0.125 mm^{-2} .



13. (Amended) A primary alkaline D battery, comprising:
a housing;
a cathode within the housing;
an anode within the housing; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.065 mm^{-2} .

14. (Amended) The battery of claim 13, wherein the battery has an $(S/V)^2$ value of greater than 0.07 mm^{-2} .

15. (Amended) The battery of claim 13, wherein the battery has an $(S/V)^2$ value of greater than 0.075 mm^{-2} .

16. (Amended) A primary alkaline AA battery, comprising:
a housing;
a cathode within the housing;
a single cavity anode within the cathode; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.15 mm^{-2} .

17. (Amended) The battery of claim 16, wherein the battery has an $(S/V)^2$ value of greater than 0.20 mm^{-2} .

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18. (Amended) The battery of claim 16, wherein the battery has an $(S/V)^2$ value of greater than 0.30 mm^{-2} .

19. (Amended) A primary alkaline AAA battery, comprising:
a housing;
a cathode within the housing;
a single cavity anode within the cathode; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.3 mm^{-2} .

20. (Amended) The battery of claim 19, wherein the battery has an $(S/V)^2$ value of greater than 0.4 mm^{-2} .

21. (Amended) The battery of claim 19, wherein the battery has an $(S/V)^2$ value of greater than 0.5 mm^{-2} .

22. (Amended) A primary alkaline AAAA battery, comprising:
a housing;
a cathode within the housing;
a single cavity anode within the cathode; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.6 mm^{-2} .

23. (Amended) The battery of claim 22, wherein the battery has an $(S/V)^2$ value of greater than 0.8 mm^{-2} .

24. (Amended) The battery of claim 22, wherein the battery has an $(S/V)^2$ value of greater than 1.0 mm^{-2} .

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25. (Amended) A primary alkaline C battery, comprising:
a housing;
a cathode within the housing;
a single cavity anode within the cathode; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.06 mm^{-2} .

26. (Amended) The battery of claim 25, wherein the battery has an $(S/V)^2$ value of greater than 0.08 mm^{-2} .

27. (Amended) The battery of claim 25, wherein the battery has an $(S/V)^2$ value of greater than 0.10 mm^{-2} .

28. (Amended) A primary alkaline D battery, comprising:
a housing;
a cathode within the housing;
a single cavity anode within the cathode; and
a separator electrically separating the anode and the cathode;
wherein the battery has an $(S/V)^2$ value of greater than 0.03 mm^{-2} .

29. (Amended) The battery of claim 28, wherein the battery has an $(S/V)^2$ value of greater than 0.04 mm^{-2} .

30. (Amended) The battery of claim 28, wherein the battery has an $(S/V)^2$ value of greater than 0.05 mm^{-2} .

47. (Amended) A battery comprising:
a housing;
a first electrode within the housing;

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and

a second electrode within the first electrode, the second electrode including nine lobes;

a separator between the first electrode and the second electrode,
wherein the first electrode contacts an entire surface of the separator.

51. (Amended) A battery comprising:

a housing;

a first electrode within the housing;

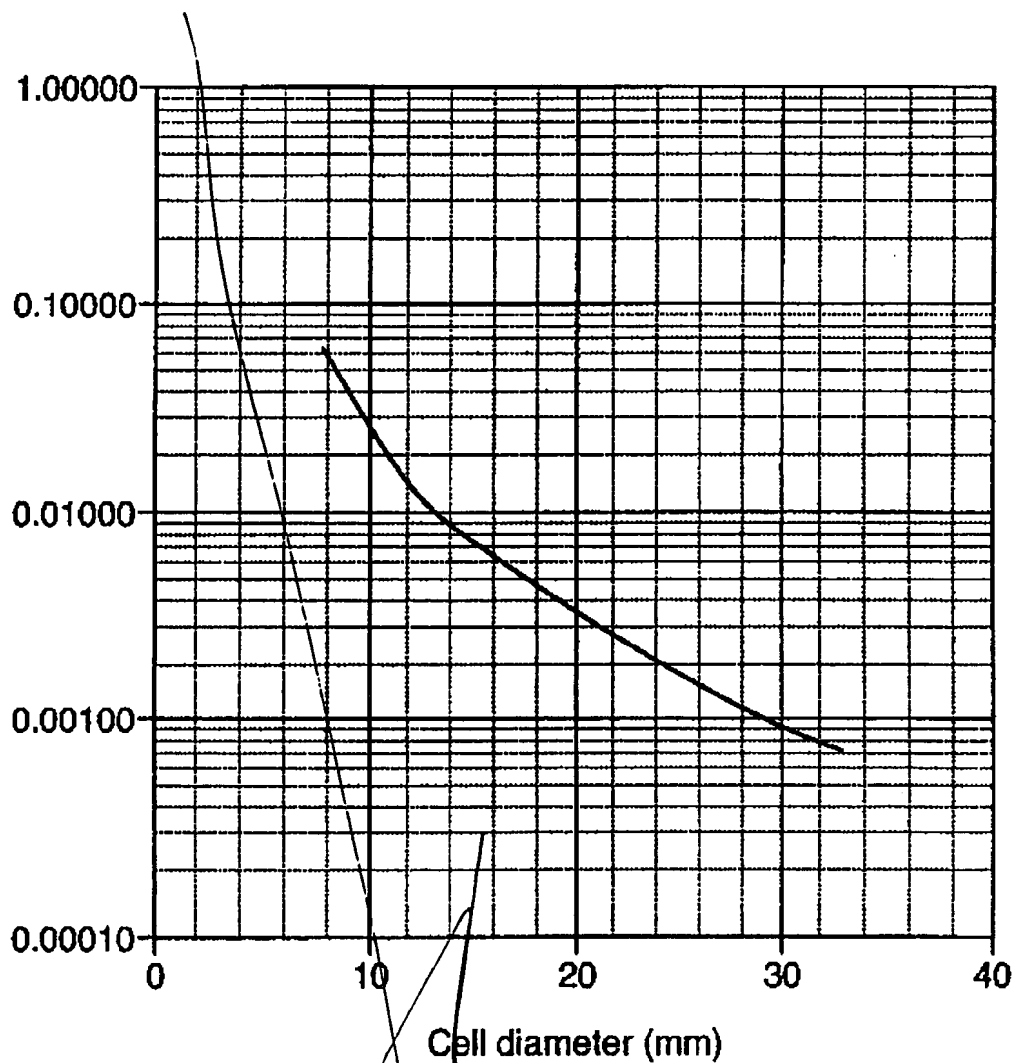
a second electrode within the first electrode, the second electrode consisting essentially of
a single cavity; and

a separator between the first electrode and the second electrode;

wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.01 mm^{-3}
above a curve in the plot below:

X

ab
 $(S/V)^2 /$
cathode OD

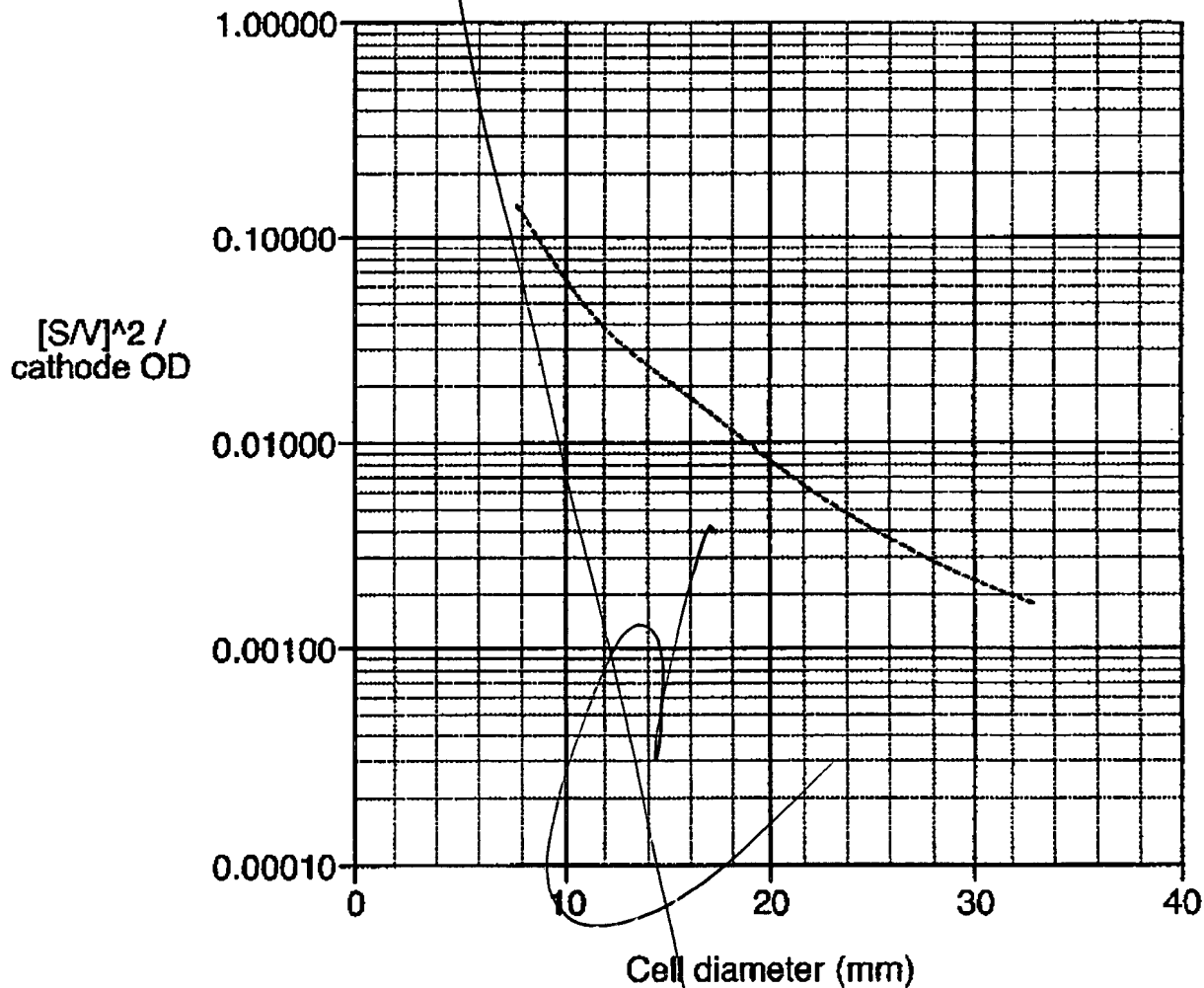


52. (Amended) The battery of claim 51, wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.02 mm^{-3} above the curve.

53. (Amended) A battery comprising:
a housing;
a first electrode within the housing;
a second electrode within the first electrode; and
a separator between the first electrode and the second electrode;

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wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.01 mm^{-3} above a curve in the plot below:



54. (Amended) The battery of claim 53, wherein the battery has a $(S/V)^2$ cathode OD v. cell diameter value at least 0.01 mm^{-3} above the curve.

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